ABSTRACT OF DISCLOSURE

Disclosed is a method of producing a polygonal, ring-shaped machine part having a complex cross-section starting from a metal rod with improved productivity and remarkably increased material yield. The method comprises the steps of: forging a rod to prepare a notched blank **1** having large diameter parts **11** and the remaining small diameter parts **12**; bending the large diameter parts **11** to form a first intermediate **3** of polygonal, open ring-shape and a complex cross-section with confronting ends; butting and welding the confronting ends of the first intermediate **3** to form a second intermediate **5**; die-forging the second intermediate **5** to form a ring-shaped product **7**; and subjecting the product **7** to necessary finishing step such as machining to obtain the final product.